2017 - 2018 Old Dominion University Catalog
Bachelor of Science in Physics
(Concentration C: Teacher Education Licensure) (w/ VCCS Equivalencies)

Sample four year curriculum with a suggested ordering of courses. Students may re-order as needed.
* indicates not automatically waived with transferable associates degree, C or better required for transfer.
Courses in green are waived by the completion of an Associate degree (Not eligible for Applied Associate degrees).

YEAR 1 - FRESHMAN (30 CREDITS)

FALL SEMESTER (14 credits)                          SPRING SEMESTER (16 credits)

General Education and Major Coursework:  VCCS Equivalency:
MATH 211 (4 credits)  MTH 173, 263 or 273*
ENGL 110C  ENGL 111*  Human Creativity
Language and Culture I:  Transfer Guide
(May be waived, see catalog for details)
CS 150 (4 credits)  CSC 201 or EGR 126*  MATH 212 (4 credits)

YEAR 2 - SOPHOMORE (30 CREDITS)

FALL SEMESTER (15 credits)                          SPRING SEMESTER (15 credits)

General Education and Major Coursework:  VCCS Equivalency:
CHEM 121N and 122N (4 credits)  CHM 111*
Literature  Transfer Guide
Philosophy and Ethics  Transfer Guide
PHYS 261N (4 credits)  See note below*  Oral Communication
Professional Education Coursework:  Professional Education Coursework:
STEM 101 (1 credit)  STEM 102 (1 credit)

YEAR 3 - JUNIOR (31 CREDITS)

FALL SEMESTER (15 credits)                          SPRING SEMESTER (16 credits)

Major Coursework:  VCCS Equivalency:
MATH 307 or 280  MTH 267 or 279*
PHYS 303  PHYS 413
PHYS 319  PHYS 103N or 104N
PHYS 323  Professional Education Coursework:
Professional Education Coursework:  STEM 202
STEM 201  MATH 312 or 285

YEAR 4 - SENIOR (29 CREDITS)

FALL SEMESTER (16 credits)                          SPRING SEMESTER (13 credits)

General Education and Major Coursework:  VCCS Equivalency:
Information Literacy and Research: CS 120G or CS 121G  Transfer Guide
PHYS 425  STEM 485
PHYS 499W or 489W & 490W  STEM 402
PHYS 120 or 309 (1 credit)  Elective**
Impact of Technology  Transfer Guide
Professional Education Coursework:  STEM 401

**Please consult with your ODU advisor for elective coursework.
Language and Culture I and II may be waived, see ODU catalog for exemptions.

The Professional Education satisfies the upper division general education requirement.

Concentration C (Education) is designed for students who are preparing to be high school physics teachers. This curriculum provides a solid foundation in both contemporary physics and in education pedagogy.

Students must first declare the physics Concentration C) teacher preparation track as their major with the physics departmental advisor. All students must apply for and be admitted into the approved physics teacher preparation program. Students must meet the required criteria for admission by passing the Virginia Board of Education prescribed assessments and earn the minimum required grade point averages (GPA). Please see catalog for details.

Requirements for graduation include completion of ENGL 110C, ENGL 211C or 221C or 231C, and the writing intensive (W) course in the major with a grade of C or better, completion of the Senior Assessment, completion of the Physics Exit Exam with a minimum score of 20th percentile, a minimum cumulative 2.75 GPA, in the major area, and in the professional education core, with no grade less than a C- in the major and the professional education core; successful completion of the Teacher Candidate Internship and a minimum of 120 credit hours, which must include both a minimum of 30 credit hours overall and 12 credit hours in upper-level courses in the major program from Old Dominion University.